

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562496

Luminaire Tested: **SQ4-PW1-150U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562496
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

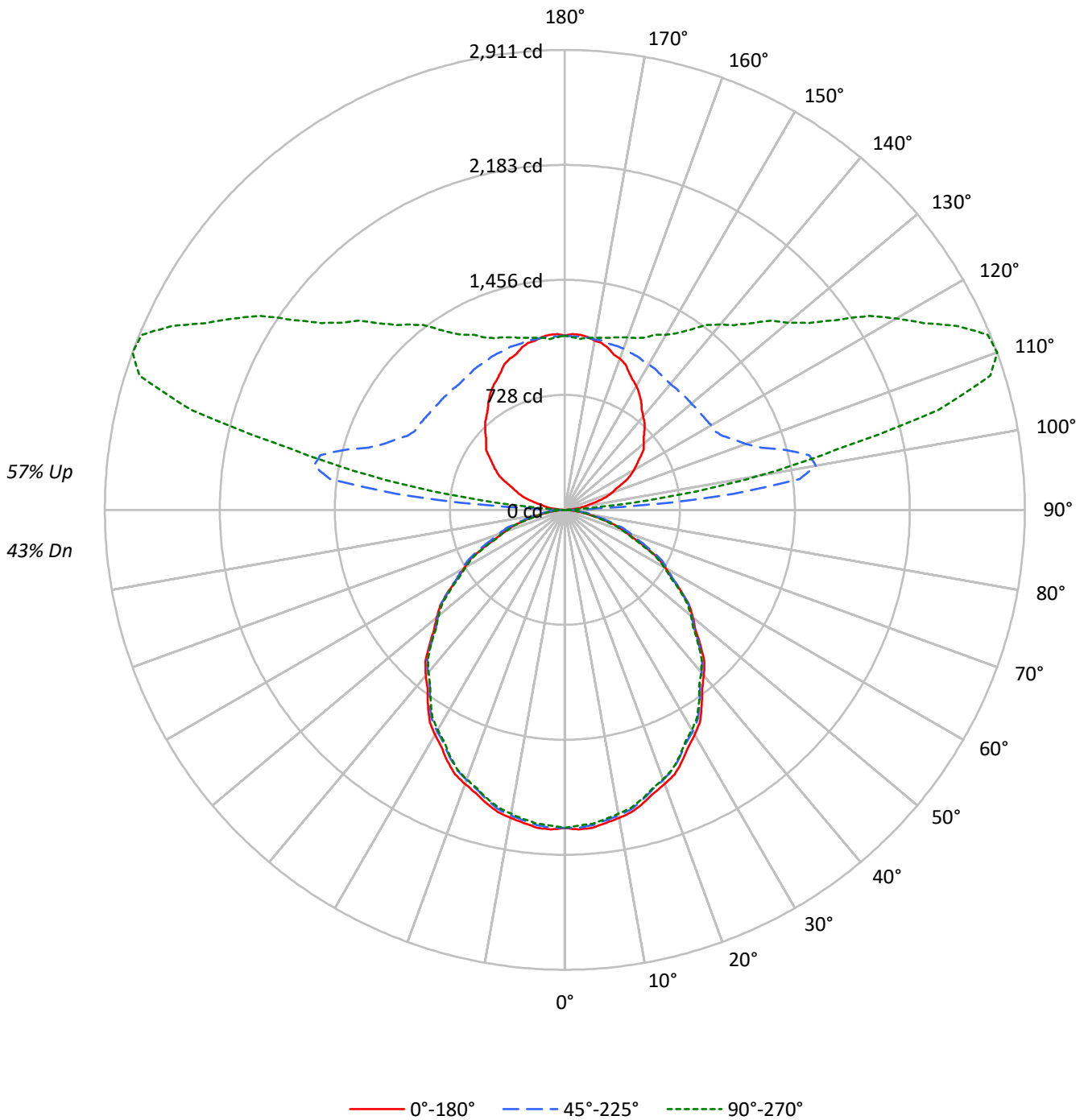
Lumens per Lamp: N/A
Luminaire Lumens: 11971.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	49	47	45	39	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18580	18580	18580
5°	18700	18552	18470
10°	18551	18401	18300
15°	18354	18150	18082
20°	18134	17856	17821
25°	17881	17556	17501
30°	17504	17238	17126
35°	17006	16766	16666
40°	16475	16220	16155
45°	15835	15626	15557
50°	15179	15051	14949
55°	14469	14469	14240
60°	13587	13849	13358
65°	12433	13053	12123
70°	10960	12012	10674
75°	9361	10751	9108
80°	7258	9048	7353
85°	4700	6944	6203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.6
10°-20°	535.4	4.5
20°-30°	794.1	6.6
30°-40°	929.2	7.8
40°-50°	925.1	7.7
50°-60°	798.8	6.7
60°-70°	575.0	4.8
70°-80°	301.5	2.5
80°-90°	74.8	0.6
90°-100°	502.4	4.2
100°-110°	1429.4	11.9
110°-120°	1369.6	11.4
120°-130°	1083.9	9.1
130°-140°	870.0	7.3
140°-150°	681.1	5.7
150°-160°	498.4	4.2
160°-170°	308.7	2.6
170°-180°	104.8	0.9
0°-30°	1519.1	12.7
0°-40°	2448.3	20.5
0°-60°	4172.2	34.9
0°-90°	5123.5	42.8
90°-120°	3301.4	27.6
90°-150°	5936.5	49.6
90°-180°	6848.0	57.2
0°-180°	11971.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2019	1996	2003	1998	1994	191
15°	1922	1897	1900	1897	1893	542
25°	1756	1727	1725	1714	1719	808
35°	1510	1489	1489	1474	1480	944
45°	1214	1203	1198	1194	1192	936
55°	900	898	900	887	885	803
65°	570	587	598	574	555	564
75°	263	287	302	282	256	281
85°	44	58	66	62	59	59
90°	0	0	0	0	0	4
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2025.1	2008.5	2013.8	2009.3	1999.6
5°	2019.1	1996.5	2003.1	1997.7	1994.3
7.5°	1998.5	1977.7	1982.5	1976.8	1974.7
10°	1980.1	1959.2	1964.1	1956.9	1953.4
12.5°	1958.8	1936.6	1941.4	1934.2	1932.2
15°	1921.5	1897.2	1900.2	1896.6	1893.1
17.5°	1878.2	1853.6	1854.1	1848.4	1847.7
20°	1847.0	1821.0	1818.6	1811.6	1815.1
22.5°	1812.9	1785.5	1783.1	1773.3	1778.1
25°	1756.5	1727.0	1724.6	1714.0	1719.2
27.5°	1691.2	1662.1	1662.1	1647.3	1652.9
30°	1643.0	1615.2	1618.1	1600.5	1607.5
32.5°	1591.9	1566.9	1568.4	1550.8	1557.8
35°	1509.9	1489.1	1488.6	1474.5	1479.7
37.5°	1426.1	1407.7	1404.8	1396.7	1398.1
40°	1367.9	1352.3	1346.7	1341.3	1341.3
42.5°	1306.9	1292.7	1287.0	1283.1	1281.7
45°	1213.6	1203.2	1197.6	1194.0	1192.3
47.5°	1121.3	1111.6	1106.8	1104.3	1102.5
50°	1057.5	1050.5	1048.6	1043.2	1041.5
52.5°	993.6	989.4	987.5	980.8	979.0
55°	899.5	897.8	899.5	887.1	885.3
57.5°	801.6	804.4	810.1	793.3	789.2
60°	736.3	743.3	750.5	730.8	723.9
62.5°	669.6	680.7	690.9	668.3	658.6
65°	569.5	586.9	597.9	574.4	555.3
67.5°	473.0	494.5	507.8	482.5	460.9
70°	406.3	430.6	445.3	419.9	395.7
72.5°	348.1	375.2	387.1	363.2	338.9
75°	262.6	286.9	301.6	281.5	255.5
77.5°	186.3	209.2	221.4	203.9	182.4
80°	136.6	160.9	170.3	155.7	138.4
82.5°	96.9	117.0	123.5	114.7	102.9
85°	44.4	58.2	65.6	62.0	58.6
87.5°	11.4	21.1	27.0	27.0	28.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)